FIG.1
PRIOR ART

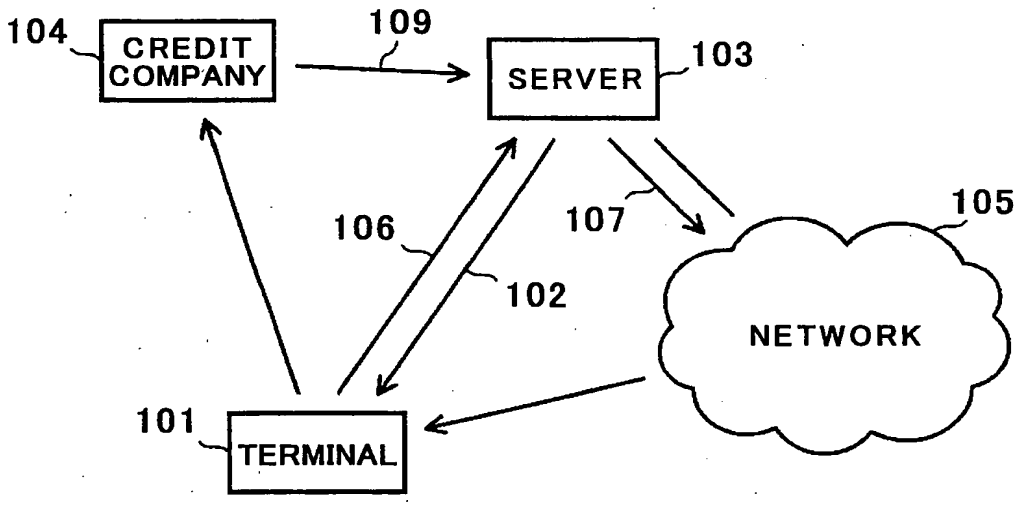


FIG.2
PRIOR ART

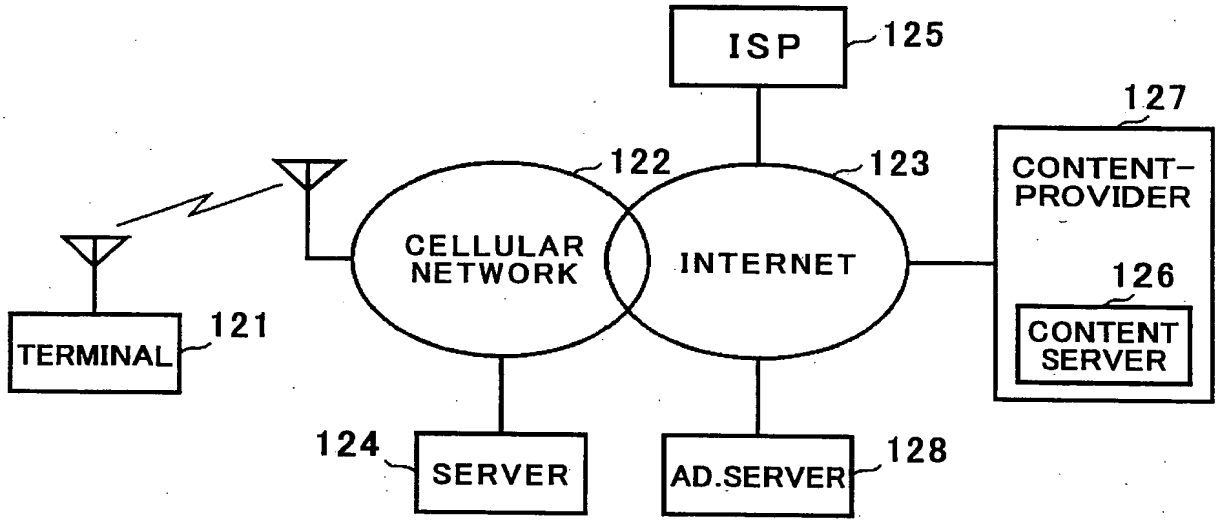


FIG.3
PRIOR ART

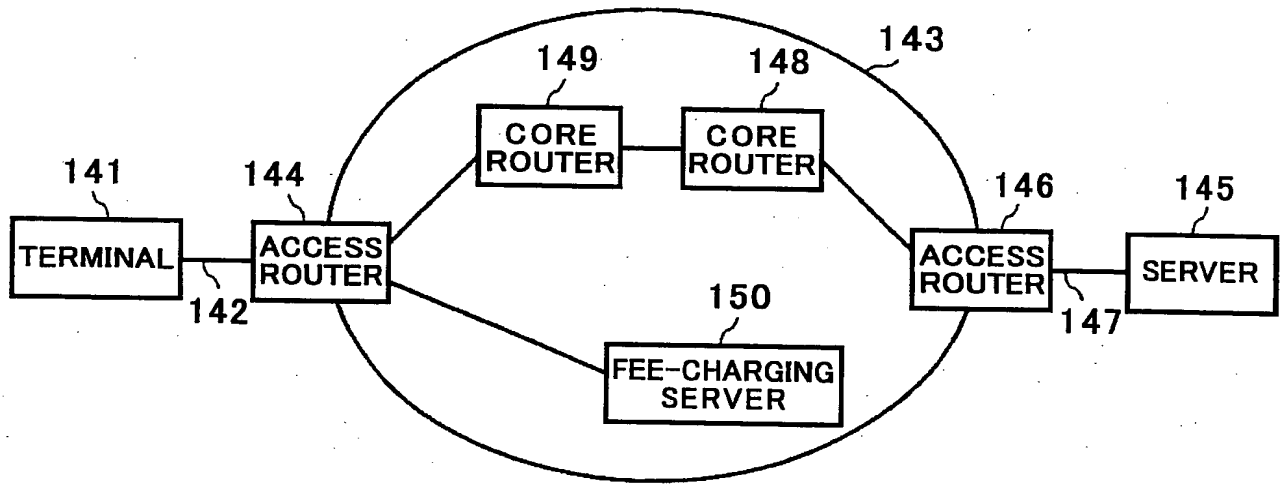


FIG.4

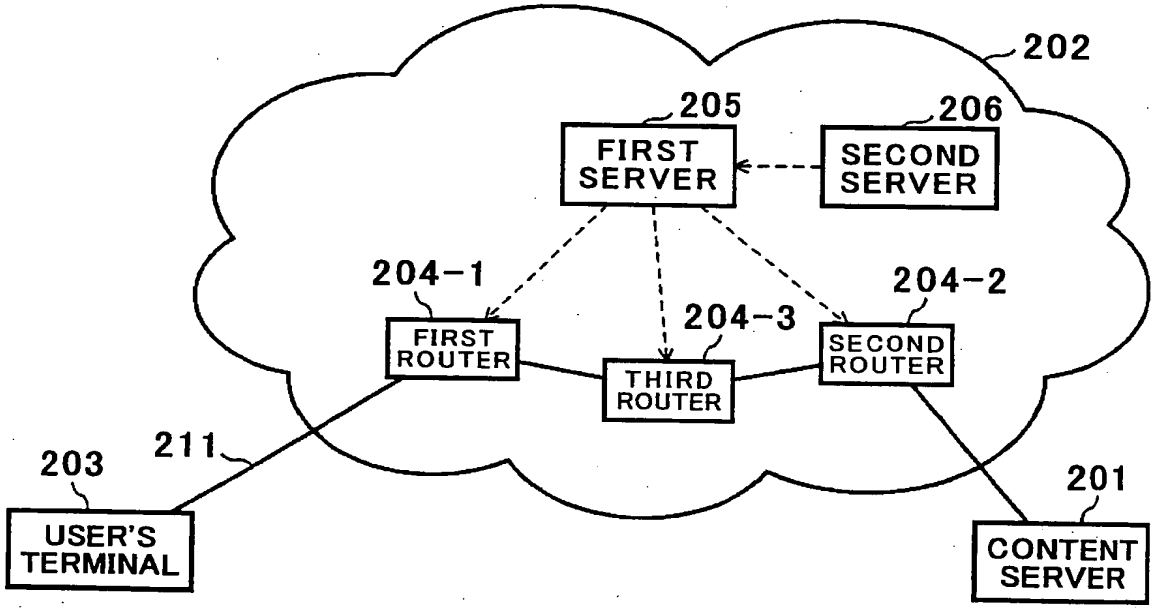

202
205
FIRST SERVER
206
SECOND SERVER
204-1
FIRST ROUTER
204-3
THIRD ROUTER
204-2
SECOND ROUTER
211
203
USER'S TERMINAL
201
CONTENT SERVER

FIG.5

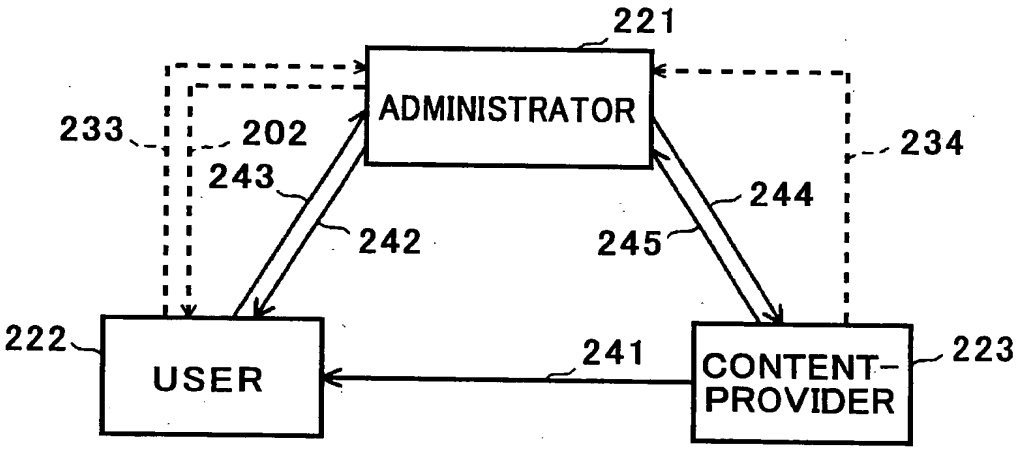

221
ADMINISTRATOR
233
202
243
242
244
245
234
222
USER
241
CONTENT-
PROVIDER
223

FIG.6

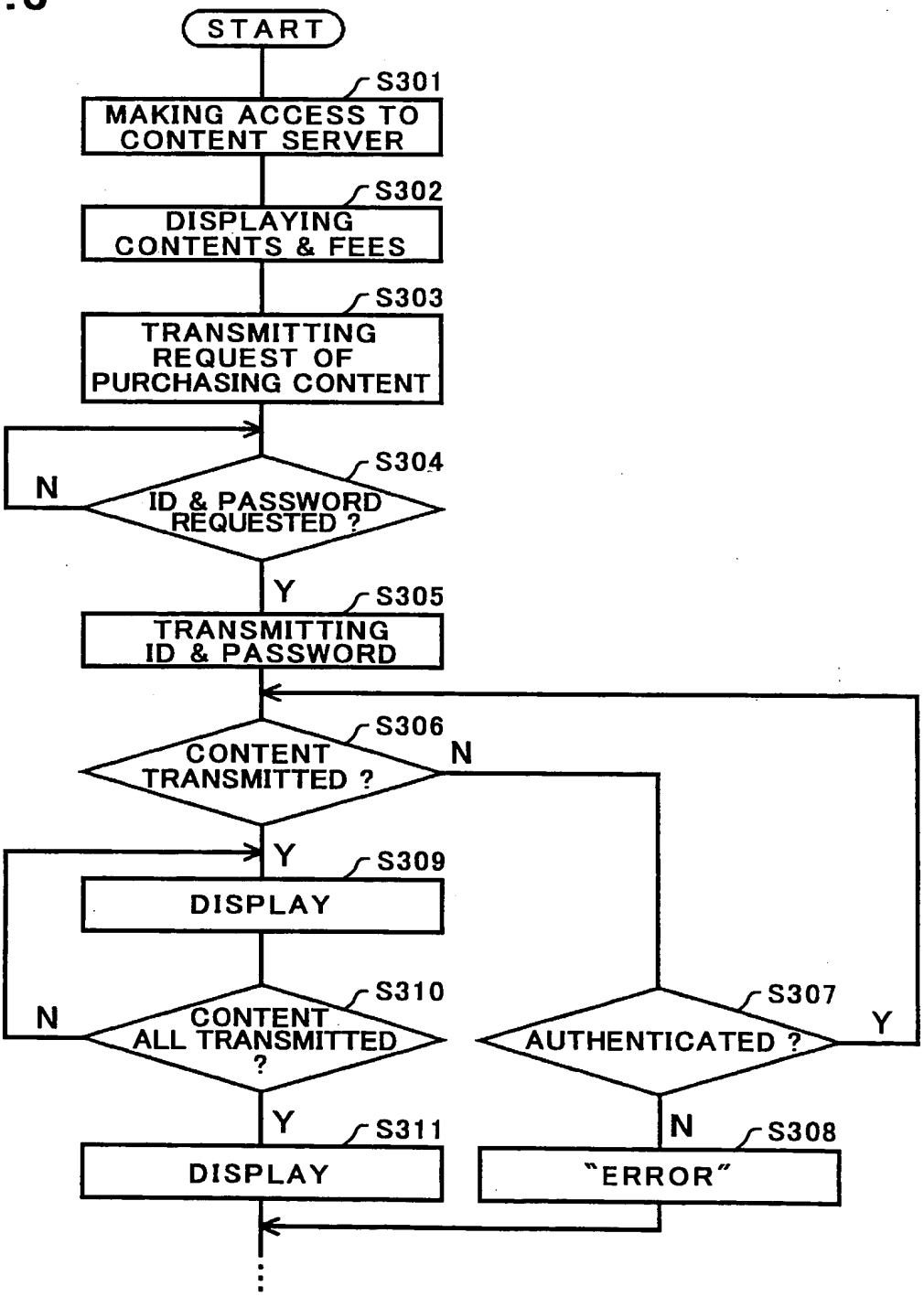

(USER'S TERMINAL)
START
S301
MAKING ACCESS TO CONTENT SERVER
S302
DISPLAYING CONTENTS & FEES
S303
TRANSMITTING REQUEST OF PURCHASING CONTENT
S304
ID & PASSWORD REQUESTED ?
N
Y
S305
TRANSMITTING ID & PASSWORD
S306
CONTENT TRANSMITTED ?
N
Y
S309
DISPLAY
S310
CONTENT ALL TRANSMITTED ?
N
Y
S311
DISPLAY
S307
AUTHENTICATED ?
Y
N
S308
"ERROR"

FIG.7

(CONTENT SERVER 201)

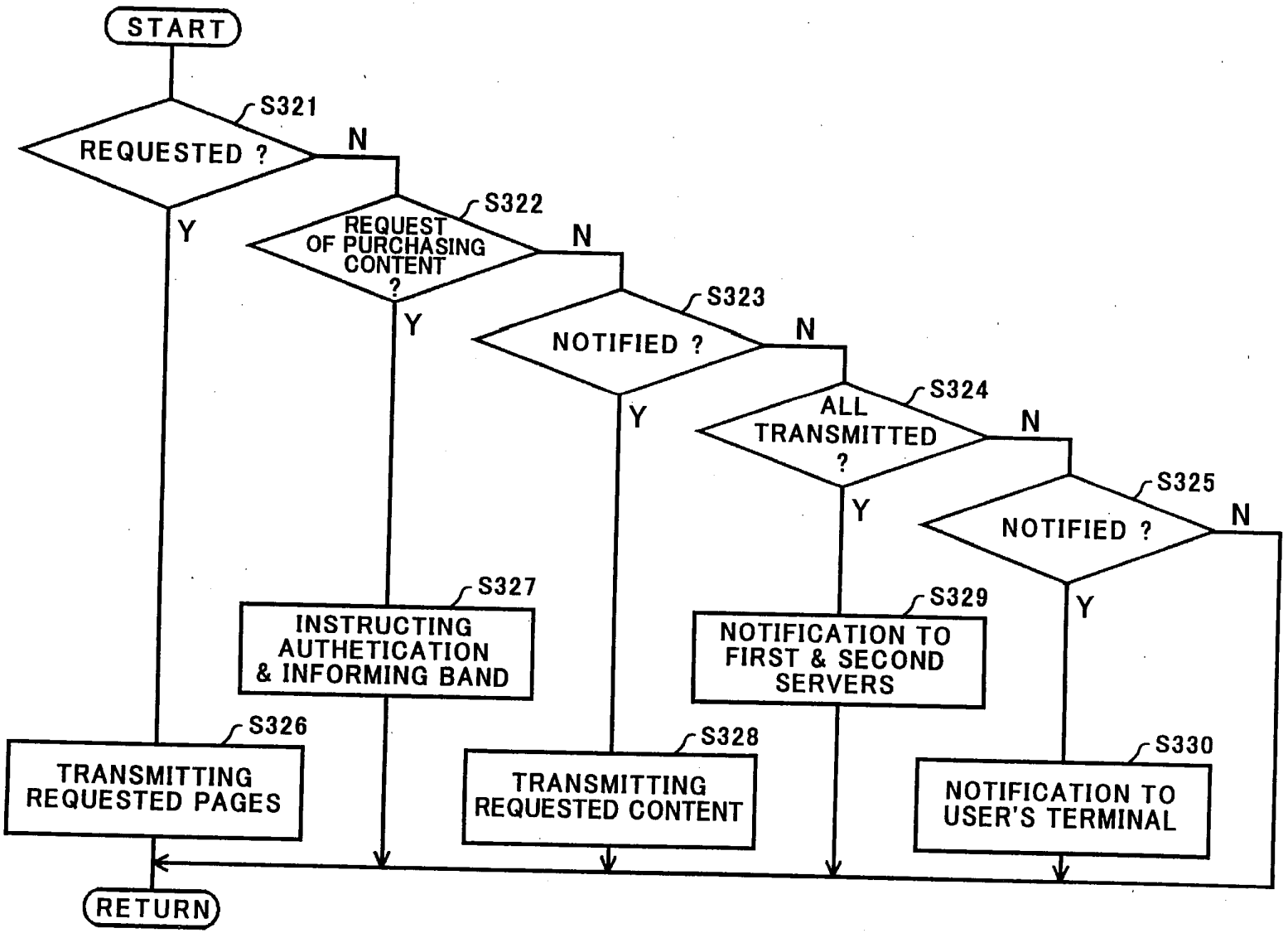


FIG.8

(SECOND SERVER 206)

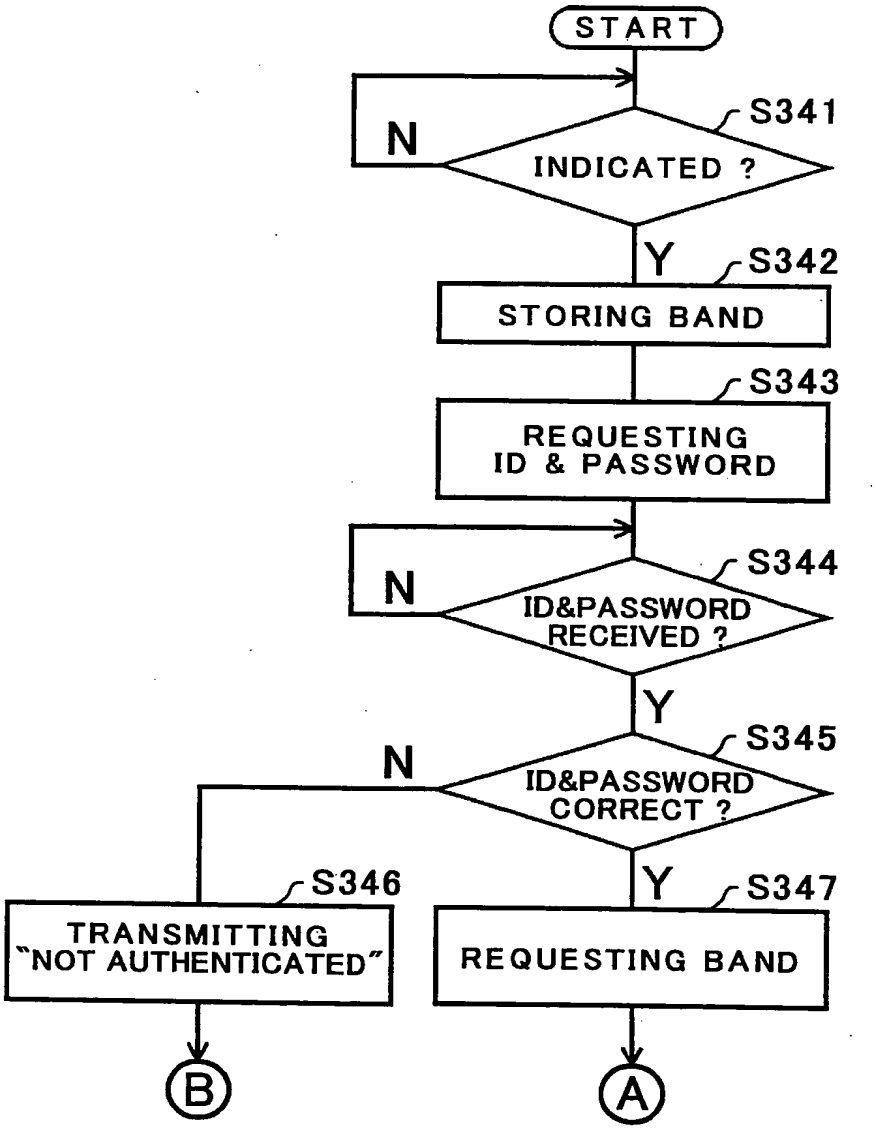


FIG.9

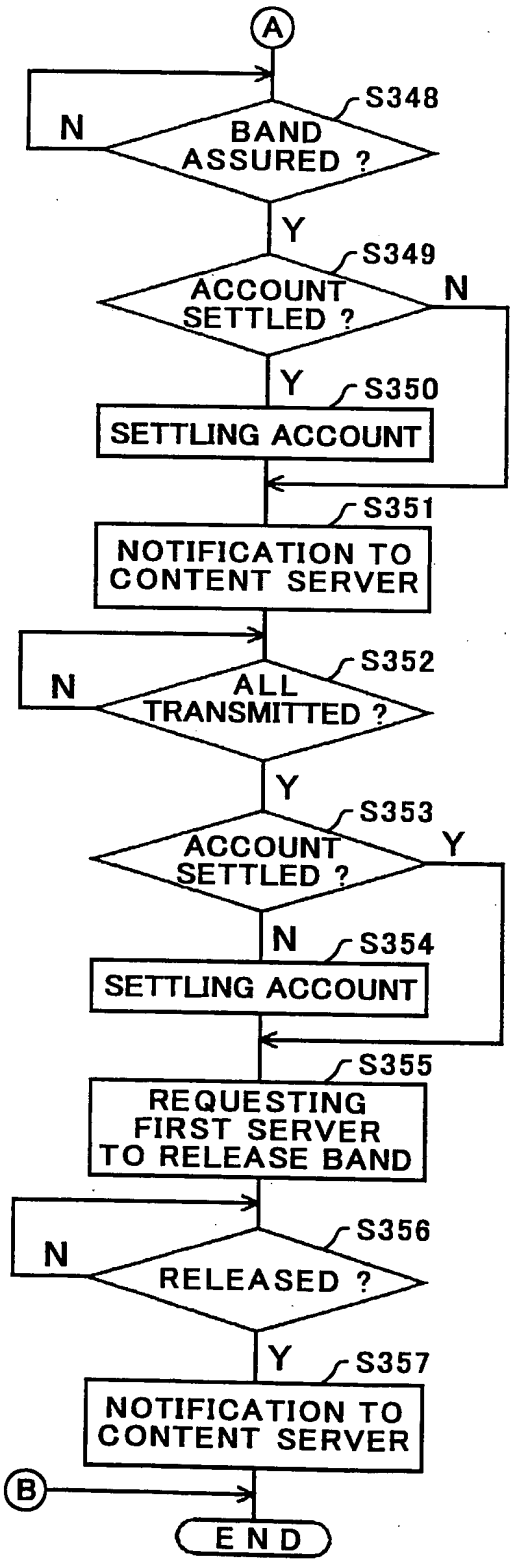

A
S348
BAND ASSURED ?
N
Y
S349
ACCOUNT SETTLED ?
N
Y
S350
SETTLING ACCOUNT
S351
NOTIFICATION TO CONTENT SERVER
S352
ALL TRANSMITTED ?
N
Y
S353
ACCOUNT SETTLED ?
Y
N
S354
SETTLING ACCOUNT
S355
REQUESTING FIRST SERVER TO RELEASE BAND
S356
RELEASED ?
N
Y
S357
NOTIFICATION TO CONTENT SERVER
B
END

FIG.10

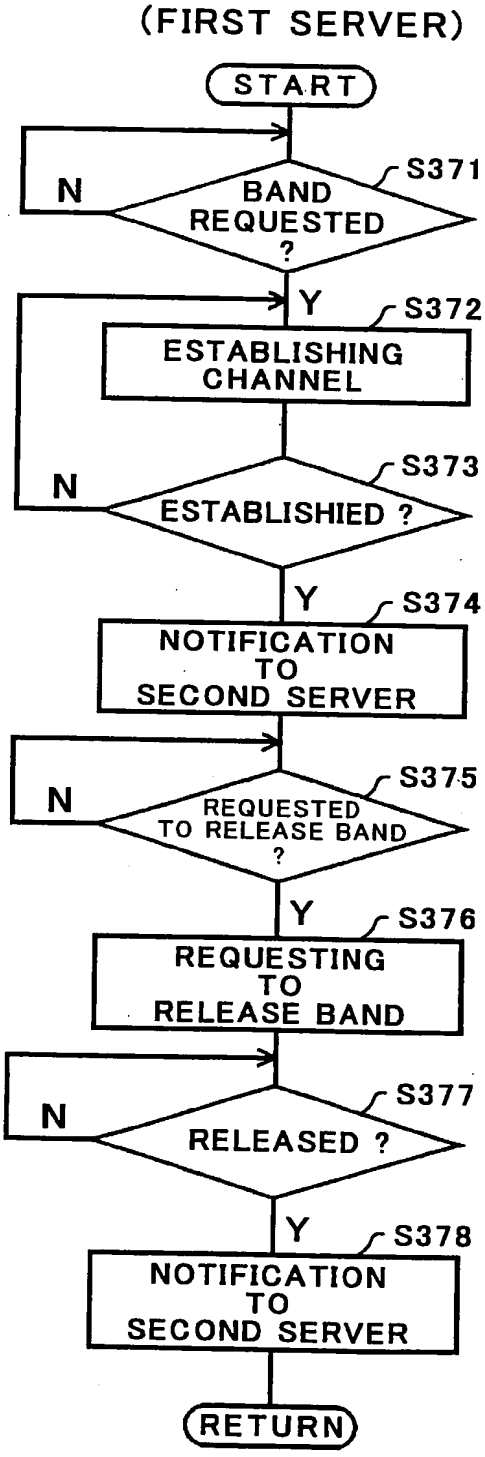

(FIRST SERVER)
START
S371
BAND REQUESTED ?
N
Y
S372
ESTABLISHING CHANNEL
S373
ESTABLISHIED ?
N
Y
S374
NOTIFICATION TO SECOND SERVER
S375
REQUESTED TO RELEASE BAND ?
N
Y
S376
REQUESTING TO RELEASE BAND
S377
RELEASED ?
N
Y
S378
NOTIFICATION TO SECOND SERVER
RETURN

FIG.11

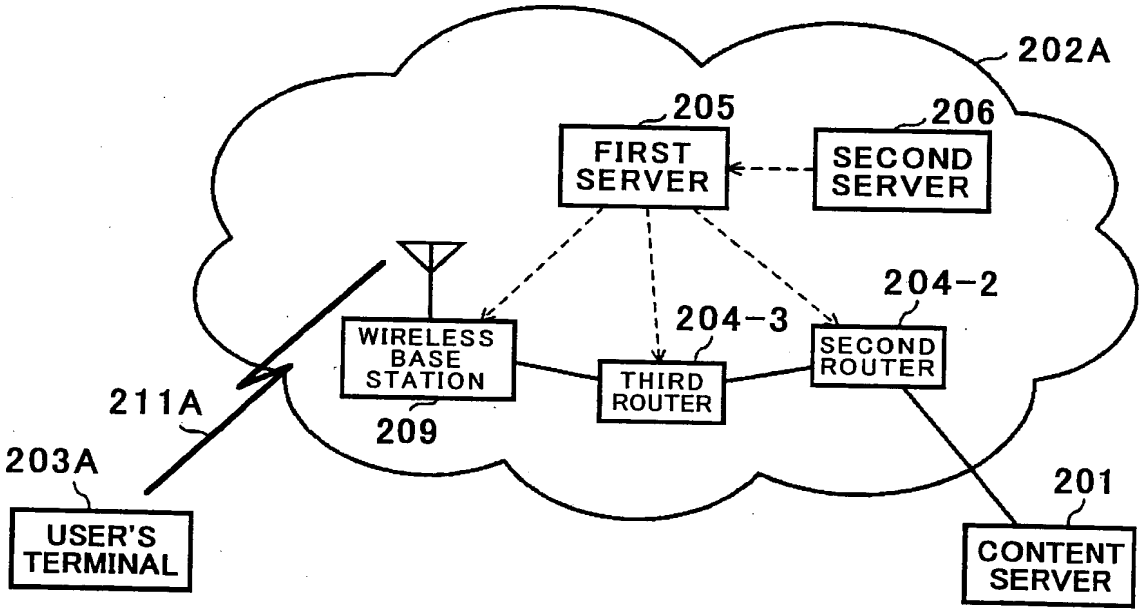

202A
205
FIRST SERVER
206
SECOND SERVER
204-2
204-3
WIRELESS BASE STATION
209
THIRD ROUTER
SECOND ROUTER
211A
203A
USER'S TERMINAL
201
CONTENT SERVER

FIG.12

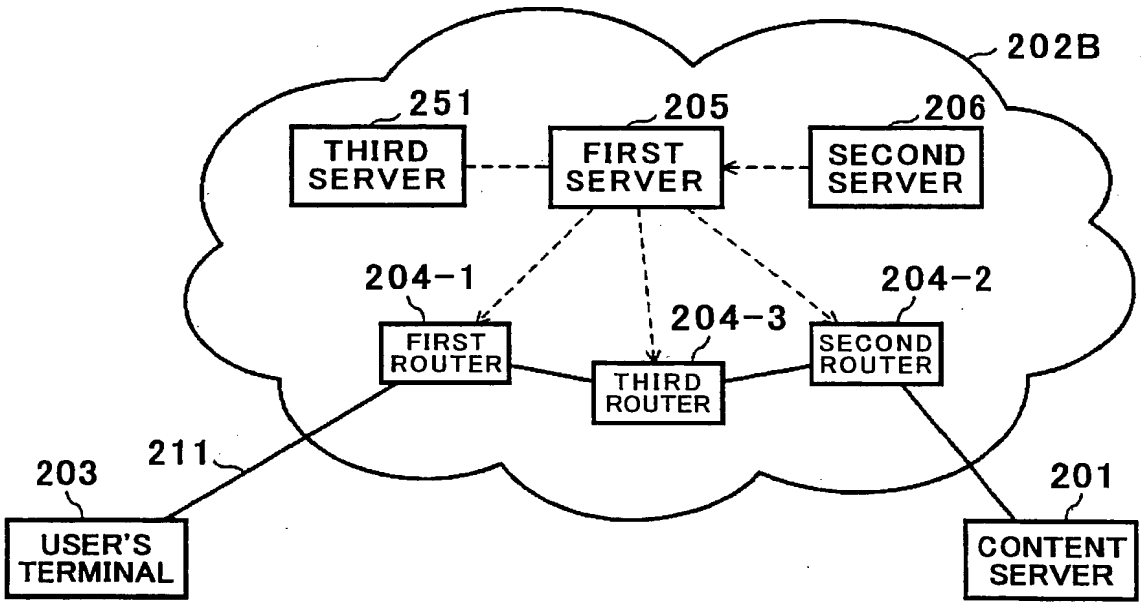

202B
251
THIRD SERVER
205
FIRST SERVER
206
SECOND SERVER
204-1
FIRST ROUTER
204-3
THIRD ROUTER
204-2
SECOND ROUTER
211
203
USER'S TERMINAL
201
CONTENT SERVER

FIG.13

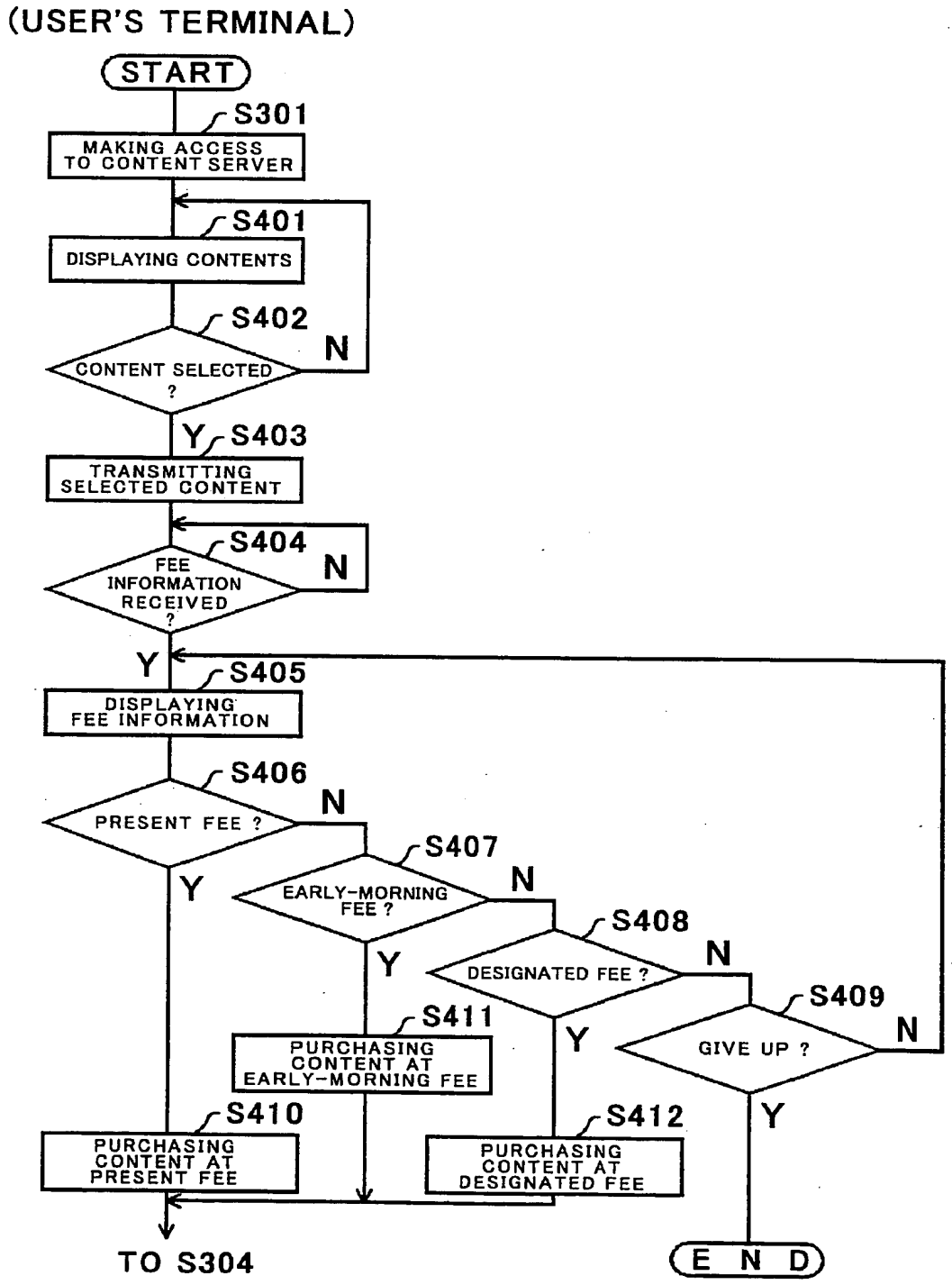

(USER'S TERMINAL)
START
S301
MAKING ACCESS TO CONTENT SERVER
S401
DISPLAYING CONTENTS
S402
CONTENT SELECTED ?
N
Y
S403
TRANSMITTING SELECTED CONTENT
S404
FEE INFORMATION RECEIVED ?
N
Y
S405
DISPLAYING FEE INFORMATION
S406
PRESENT FEE ?
N
Y
S407
EARLY-MORNING FEE ?
N
Y
S408
DESIGNATED FEE ?
N
Y
S409
GIVE UP ?
N
Y
S410
PURCHASING CONTENT AT PRESENT FEE
S411
PURCHASING CONTENT AT EARLY-MORNING FEE
S412
PURCHASING CONTENT AT DESIGNATED FEE
TO S304
E N D

FIG.14

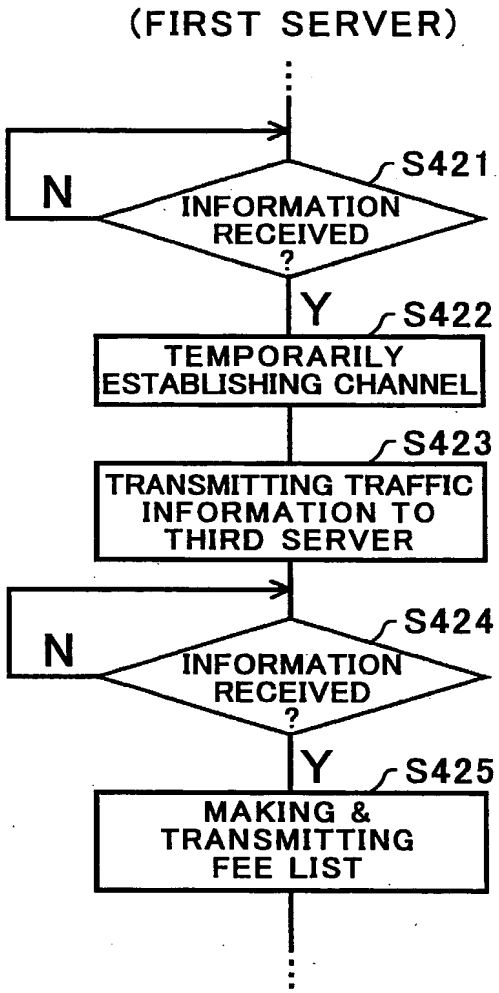

(FIRST SERVER)
S421
N
INFORMATION RECEIVED ?
Y
S422
TEMPORARILY ESTABLISHING CHANNEL
S423
TRANSMITTING TRAFFIC INFORMATION TO THIRD SERVER
S424
N
INFORMATION RECEIVED ?
Y
S425
MAKING & TRANSMITTING FEE LIST

FIG.15

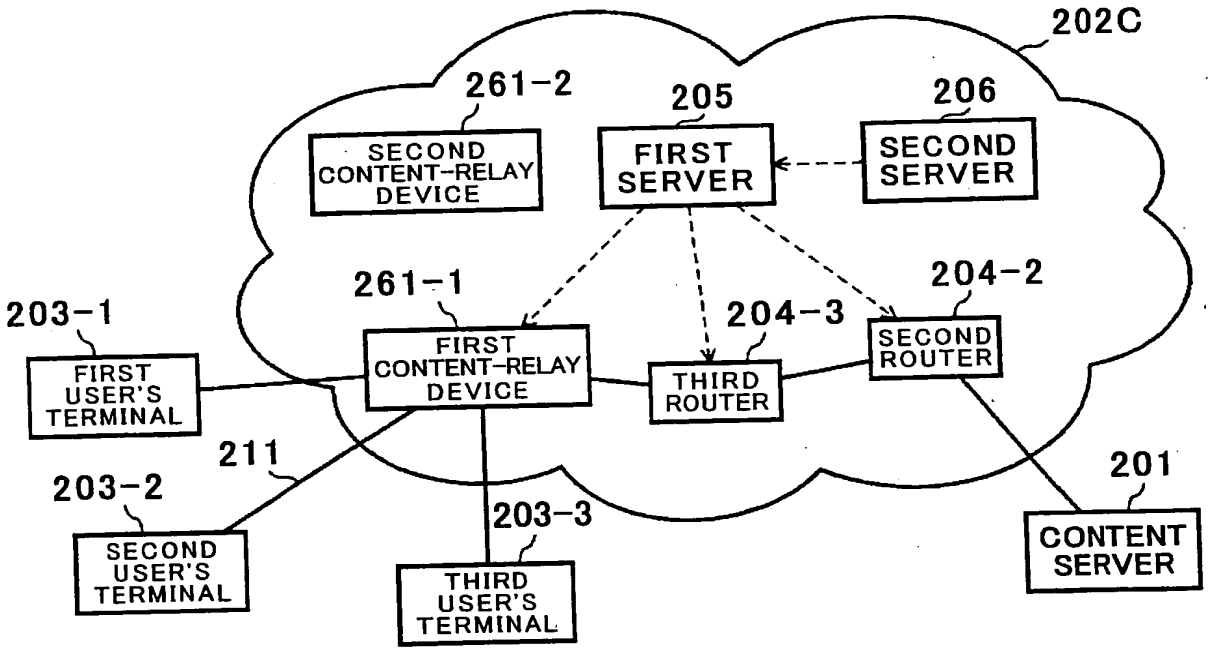

202C
261-2
SECOND CONTENT-RELAY DEVICE
205
FIRST SERVER
206
SECOND SERVER
261-1
FIRST CONTENT-RELAY DEVICE
204-3
THIRD ROUTER
204-2
SECOND ROUTER
203-1
FIRST USER'S TERMINAL
211
203-2
SECOND USER'S TERMINAL
203-3
THIRD USER'S TERMINAL
201
CONTENT SERVER

FIG.16

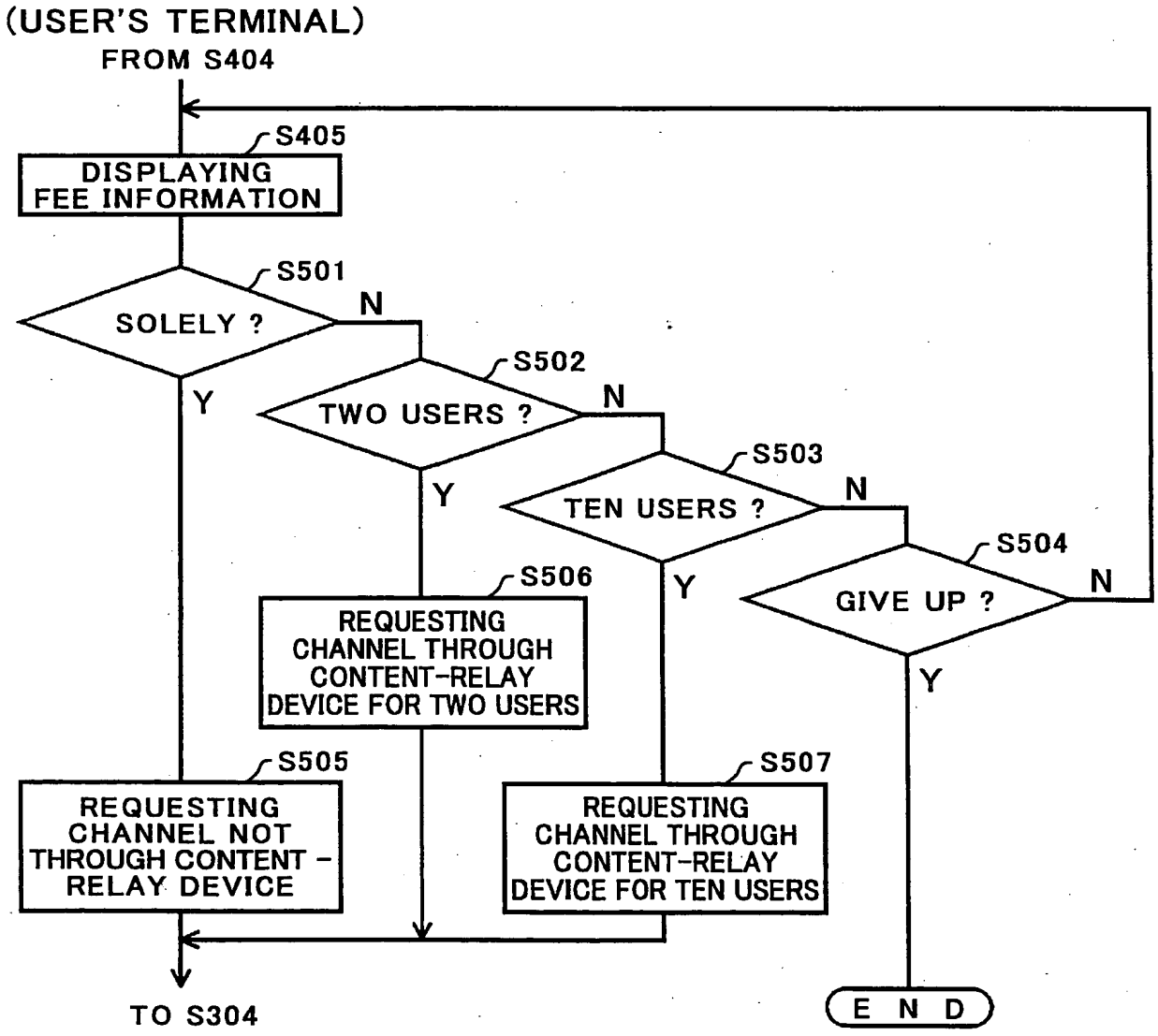

(USER'S TERMINAL)
FROM S404
S405
DISPLAYING FEE INFORMATION
S501
SOLELY ?
N
Y
S502
TWO USERS ?
N
Y
S503
TEN USERS ?
N
Y
S504
GIVE UP ?
N
Y
S506
REQUESTING CHANNEL THROUGH CONTENT-RELAY DEVICE FOR TWO USERS
S505
REQUESTING CHANNEL NOT THROUGH CONTENT - RELAY DEVICE
S507
REQUESTING CHANNEL THROUGH CONTENT-RELAY DEVICE FOR TEN USERS
TO S304
E N D

FIG.17

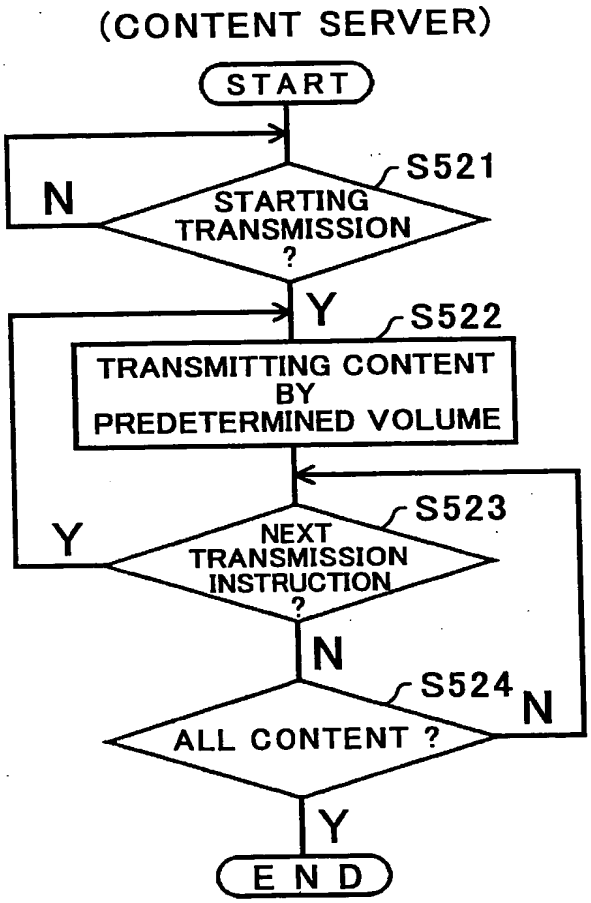
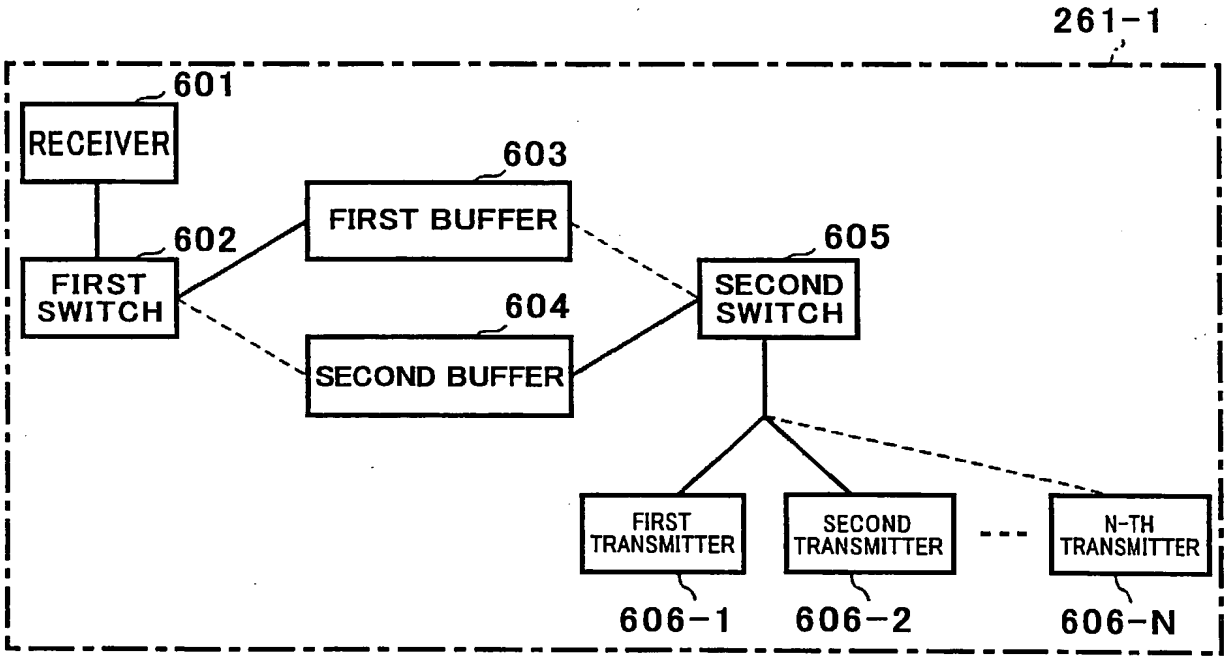

(CONTENT SERVER)
START
S521
N
STARTING TRANSMISSION ?
Y
S522
TRANSMITTING CONTENT BY PREDETERMINED VOLUME
S523
Y
NEXT TRANSMISSION INSTRUCTION ?
N
S524
N
ALL CONTENT ?
Y
END

FIG.18


261-1
601
RECEIVER
603
FIRST BUFFER
602
FIRST SWITCH
605
SECOND SWITCH
604
SECOND BUFFER
FIRST TRANSMITTER
SECOND TRANSMITTER
N-TH TRANSMITTER
606-1
606-2
606-N